

# *DVB-T USB SET-TOP BOX*

## User Manual

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# Chapter 1. DVB-T USB SET-TOP BOX Introduction

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## 1.1 Introduction

DVB-USB is an advanced-designed digital television receiver for PC users, especially for viewing and recording digital programs. Recordings can be made while viewing the programs or prescheduled in advance.

DVB-USB enables viewing multiple channels simultaneously, and also allows you to switch to your favorite channel instantly after browsing through the channels. What's more, the convenient "TimeShift" function provides a new television watching experience by allowing you to pause, replay, and even fast-forward or rewind the ongoing programs.

## 1.2 Package Content

- △ DVB-T USB SET-TOP BOX x 1
- △ Quick Installation Guide x 1
- △ USB Cable x 1
- △ DVB-T Active Antenna x 1
- △ Driver CD (Multi-language Software and User's Manual) x 1

## 1.3 System Requirements

- △ Microsoft Windows 2000/XP
- △ Desktop PC or Notebook PC
- △ 750MHz CPU or above
- △ 128M RAM or above
- △ VGA Card with at the least 16MB Memory
- △ Sound Card
- △ Free USB Port
- △ Microsoft Direct X 9.0b or above
- △ Digital Terrestrial TV Antenna
- △ 64QAM @ USB2.0 only
- △ 10MB Hard Disk Space for running the software

## 1.4 Features

- △ Support DVB Protocol (ETS 300 744)
- △ Digital Terrestrial TV and Radio Program Receiving
- △ Real Time Digital Video Recording (DVR) and Scheduling Recording
- △ Time-Shifting
- △ Electronic Program Guide (EPG)
- △ Snapshot
- △ Multi Channel Preview
- △ Channels Auto Scan 6/7/8 M
- △ Teletext \*
- △ Favorite List
- △ MPEG-II Software Decoding

*Note: The Digital Radio mentioned here is not the same with DAB (Digital Audio Broadcasting), it means the audio broadcasting by the DVB-T content provider.*

*Note: \* Depends on Content Provider*

## 1.5 Hardware Specification

- △ Support DVB-T(EN300744)
- △ USB 2.0/1.1 interface
- △ DC 5V±5% Power Input
- △ Tuner 5V±5% Power output
- △ USB Bus-Powered, current<500mA @ 5V DC
- △ DVB-T IEC connector
- △ Green LED: Signal Lock
- △ Red LED: Power Indicator

## Chapter 2. Installation Procedure

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Before you proceed with the installation, it is important that you to know: A complete installation includes “Driver” and “Application Program”, both parts can be installed easily from the software CD. Please follow the instructions.

***It is strongly recommended that you use the DVB-T Active Antenna included in the product packaging to avoid possible short-circuit and device damage.***

**Note1:** The following installation is operated under Windows 2000. (Procedures are the same in Windows XP)

**Note2:** Be sure the DVB-T USB SET-TOP BOX is connected to your PC when you are installing the software.

**Note3:** After connecting DVB-T SET-TOP BOX to your computer, a pop-up window saying “Found New Hardware Wizard” will appear. Please click “Cancel” to quit the wizard, the driver will be installed automatically from CD.



- A. Execute the **“Setup.exe”** program from the CD. The InstallShield Wizard will check the operating system version first. Please follow the directions after it finishes checking.
- B. Click **“Next”** to continue.



- C. Choose **“I agree....”** and click **“Next”** to continue.



D. Enter your user information and click **“Next”** to continue.



The screenshot shows the 'User Information' window of the 'DVB-USB Terrestrial Setup' application. The window has a blue title bar with the application name and a close button. Below the title bar, the text 'User Information' is displayed, followed by the instruction 'Enter your user information and click Next to continue.' To the right of this text is a small graphic of a hand typing on a keyboard. The main area of the window contains two text input fields: the first is labeled 'Name:' and the second is labeled 'Company:'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

E. Please input 16 serial numbers and click **“Next”** to continue.

(Serial number can be found on the software CD label)



The screenshot shows the 'Serial Number' window of the 'DVB-USB Terrestrial Setup' application. The window has a blue title bar with the application name and a close button. Below the title bar, the text 'Serial Number' is displayed, followed by the instruction 'Enter your serial number and click Next to continue.' To the right of this text is a small graphic of a hand typing on a keyboard. The main area of the window contains a text input field labeled 'Serial Number:'. Below this field, there is a paragraph of text: 'A serial number is required to continue this installation. Please type your serial number into the box below and click Next to continue.' At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

F. Please read the information and click **“Next”** to continue.



G. Please select the user interface language that you want to install and click **“Next”** to continue.



H. Select an installation folder and click **“Next”** to continue.



(Or click “Change” to switch to an existing folder)



I. Select a shortcut folder and click “**Next**” to continue.



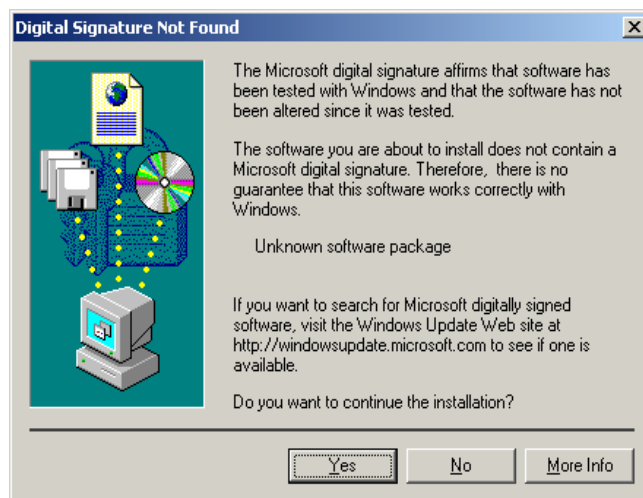
J. Please click **“Next”** to process with installation



K. Restart the computer and make sure the DVB-T USB SET-TOP BOX is connected to your computer correctly. Please wait 2-3 minutes for the system to find the device. The DVB-T USB SET-TOP BOX is now successfully installed.



L. Click ***“Finish”*** to complete the installation.



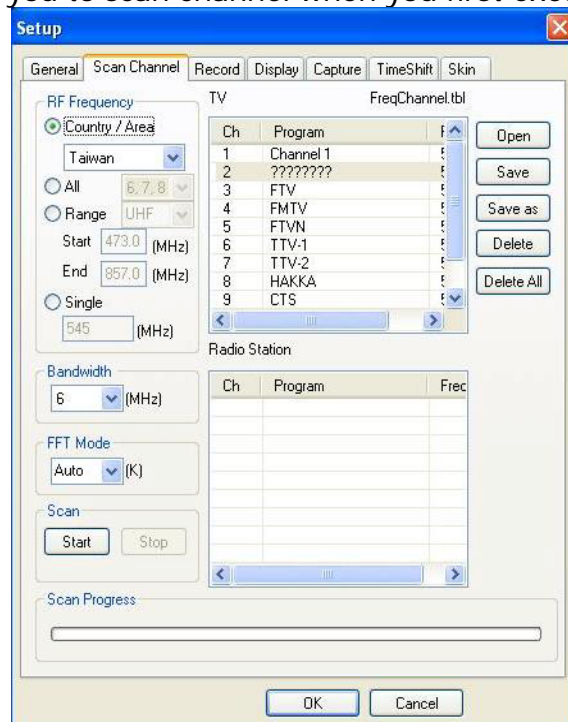
Note: A dialog saying “Digital Signature Not Found” might appear to warn you that the device hasn’t got Microsoft Digital Signature. Select ***“Yes”*** to continue the installation, the software has been tested and proved to work correctly with Windows.

## Chapter 3. System Setup

### 3.1 How to scan

Before watching or listening to TV/Radio, start "Scan Channel" and choose one of the four channel scanning methods (including "Country/Region", "All", "Range", and "Single") to conduct program scanning. The scan results will be shown on the TV and Radio lists, you can also save the list for future use.

The program will ask you to scan channel when you first execute DVB-USB.



**Step1.** Please select a Country or Area you are in.

**Step2.** Please click "**Start**" to scan.

















**Step3.** Please click "**OK**" when the scan is finished.

### 3.2 Control panel introduction

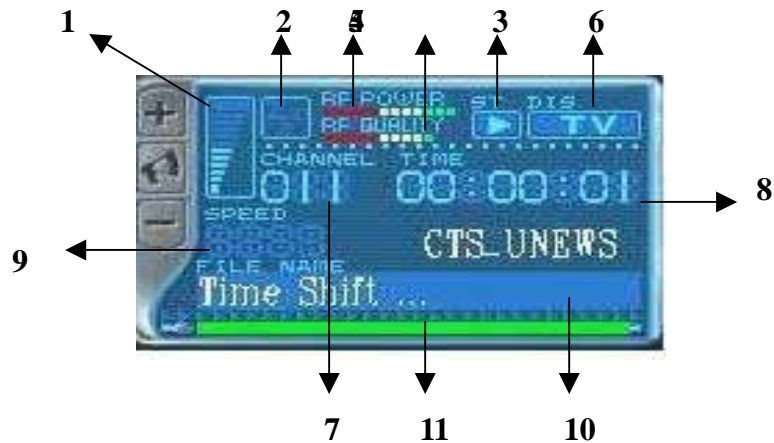
The DVB-USB default control panel is shown below. It allows switching to different panels as required. All main functions can be operated via the buttons or shuttle on the control panel. Messages delivered to you will be shown on the left side of the LCD to give you a full understanding of the current status.



## Buttons

	Play – TV, files
	Stop – TV, recordings, files, TimeShift
	Pause – TV, recordings, files, TimeShift
	Fast-Forward – files, TimeShift
	Rewind – Files, TimeShift
	Snapshot (capture single image)
	Record TV
	Minimize to taskbar
	End program
	Enable/Disable TimeShift
	Play files
	Open function setting window
	Open EPG window
	Open My Favorite
	Open Teletext
	Mute On/Off
	Numeric keypad ( 0~9 )
	Clear input
	Next channel
	Previous channel
	Change to the last channel
	Return to TV
	View multiple channels
	Maximize to full screen / restore down
	Volume Shuttle (Adjust volume )

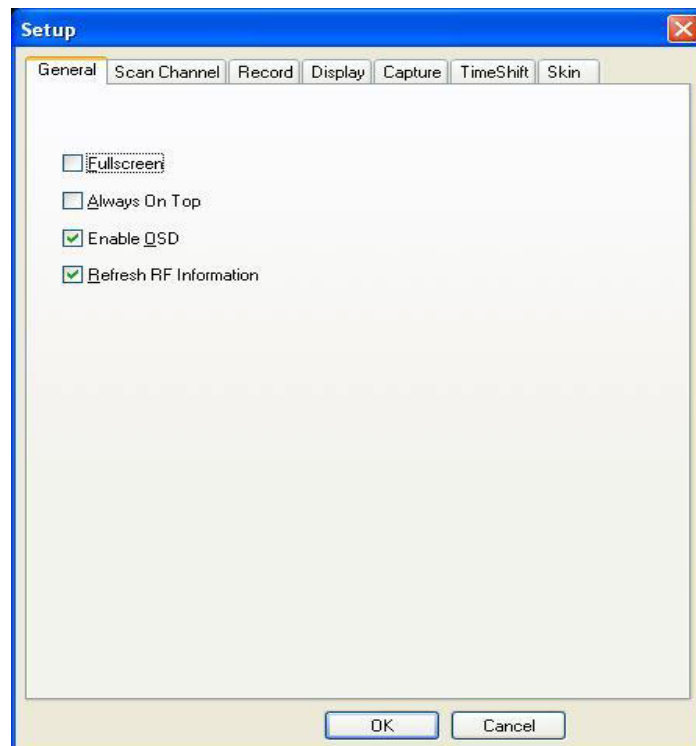
## LCD display





<b>1</b>	Display volume
<b>2</b>	Mute on/off
<b>3</b>	Display playing status
<b>4</b>	Display RF strength
<b>5</b>	Display RF quality
<b>6</b>	Display media type
<b>7</b>	Display channel
<b>8</b>	Display TimeShift playing time
<b>9</b>	Display playing speed
<b>10</b>	Display file name or name of external device
<b>11</b>	A time scroll will appear after TimeShift is activated. Red represents the recorded sections and green represents sections available for recording.


### 3.3 Functional setting


#### 3.3.1 General



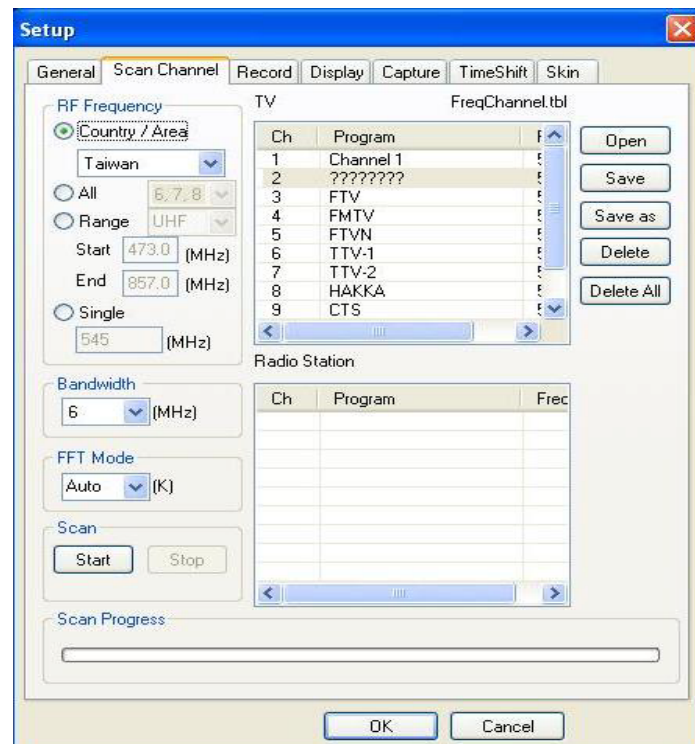
Full screen  Activate full screen playing

Always on Top  Fix the image display window on top of the desktop

Enable OSD  Turn on OSD display

Refresh RD Information  Turn on RF information display

### 3.3.2 Scan channel



RF frequency  $\mathcal{A}$  There are 4 modes available for selection: "Country/Region", "All", "Range", and "Single".

Bandwidth  $\mathcal{A}$  There are 3 types of bandwidth available for selection: "6", "7", and "8"

Start  $\mathcal{A}$  Start scanning

Stop  $\mathcal{A}$  Stop scanning

Scan process  $\mathcal{A}$  Display scan completion rate

TV  $\mathcal{A}$  Display scanned TV program list

Radio station  $\mathcal{A}$  Display scanned radio program list

Open  $\mathcal{A}$  Open created program list

Save  $\mathcal{A}$  Save program list

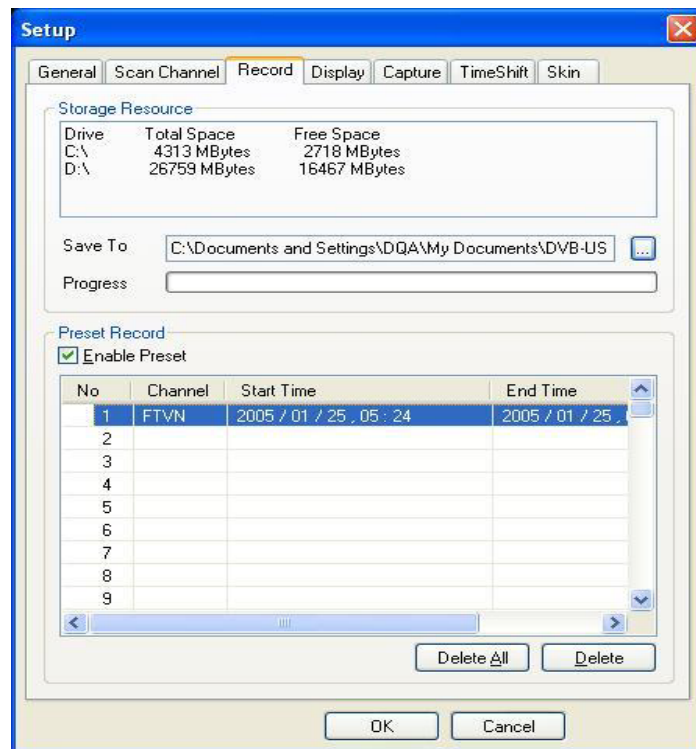
Save as  $\mathcal{A}$  Save program list as other file name

Delete  $\mathcal{A}$  Delete programs from one list

Delete All  $\mathcal{A}$  Delete programs from all lists



### 3.3.3 Recorder



Storage Resource Display computer's memory size

Save To Set recording path

Progress Display recording progress

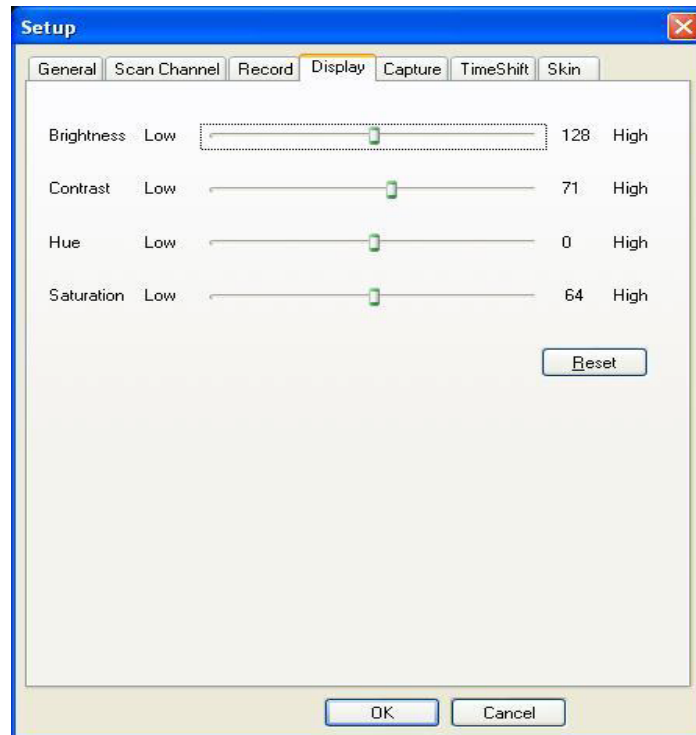
Enable Preset Activate pre-schedule recording function






Delete All Delete all pre-schedule programs

Delete Delete a pre-schedule program

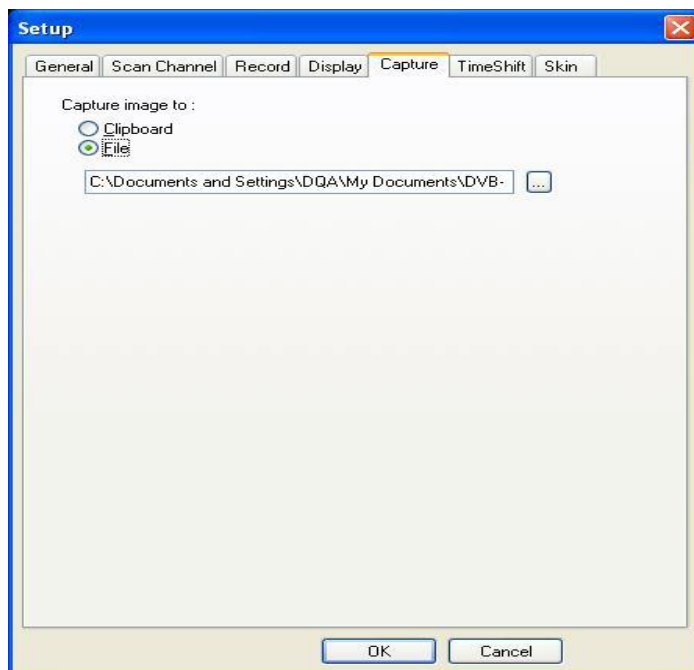
**Note: Once recording is completed, the "OK" sign will appears on the list**

### 3.3.4 Display



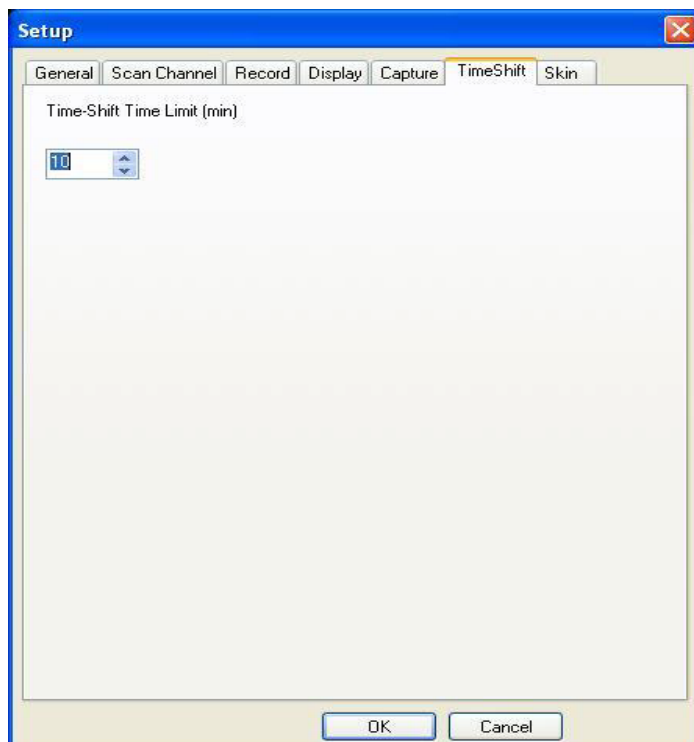
Brightness  Adjust image  
brightness Contrast  Adjust image  
contrast Hues  Adjust image hues  
Saturation  Adjust image saturation  
Reset  Restore to default settings

### 3.3.5 Capture



Set image capture to Clipboard or an assigned folder

### 3.3.6 TimeShift



Set time limit for TimeShift.

### 3.4 Right click menu

The following functions will appear when right clicking on the control panel or TV broadcasting window.

Play	Enter
Pause	Space
Stop	S
Record	R
Mute	M
Forward Scan	F
Backward Scan	B
Next CH	N / PageUp
Previous CH	P / PageDown
Recall	L
My Favorite	Ctrl+M
Multi-Channel Preview	Ctrl+W
Audio Selection	Ctrl+L
Time Shift	T
Grab Image	G
Setup	E
✓ Show Control Panel	O
Aspect Ratio	▶
Screen Size	▶
Fullscreen	W
Volume Up	+
Volume Down	-
Minimize Faceplate	Ctrl+Z
About	Ctrl+A
Help	H
Exit	Ctrl+X

## Chapter 4. Trouble Shooting

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### **1. The "Found new hardware wizard" window pops up while plugging in the DVB-T USB SET-TOP BOX**

Please refer to "Chapter 2. Installation Procedure" in the user manual. In Windows XP/2000, if you change the USB port, you have to install the driver again.

### **2. DVB-T USB SET-TOP BOX does not work properly**

In most cases, it's because of the drivers were not installed well. You might check the driver installation in the device manager of Windows Control Panel. In the device category "Sound, video and game controllers", there must be a device named "DVB-T USB2.0/1.1 adapter". If not, please remove the USB box, plug it into the USB port again and follow the steps in "Chapter 2. Installation procedure" in the user manual to re-install the driver.

### **3. Windows cannot find DVB-T USB SET-TOP BOX**

- a. Check whether DVB-T USB SET-TOP BOX was connected correctly in the USB port.
- b. After the USB box is plugged into the USB port, wait for at least 3 seconds before you launch DVB-USB.
- c. Re-start the operation system.
- d. Run "Add/Remove Hardware Device" from Windows "Control Panel" to install the correct drivers.
- e. Unplug the USB box, and then plug it again. Please note that the interval between plug and unplug should be at least 3 seconds.
- f. Plug DVB-T USB SET-TOP BOX into another USB port of the PC.

### **4. Windows cannot find the driver of DVB-T USB SET-TOP BOX**

Make sure the original CD-ROM is in the CD-ROM drive during the installation. Please indicate the correct directory where the drivers are located in Windows if install the drivers by manual.

### **5. Can not lock any program channel when auto scan.**

Please click "OK" button after making or changing any setting in "Scan Channel" before scanning the terrestrial signal.

Check the cable connection between DVB-T USB SET-TOP BOX and the antenna. Please note that the cable should be connected well to the connector of the DVB-T USB SET-TOP BOX. Exit DVB-USB. Unplug the USB box, and then plug it again. Note that the interval between plug and unplug should be at least 3 seconds. Launch DVB-USB and test again.

## **6. When error dialog box pops up or black screen appears**

Might be resulted from poor signal quality, DVB-USB doesn't receive enough data of program or receives wrong data. Please check the connection between DVB-T USB SET-TOP BOX and the antenna.

Please check the driver of VGA card or on board VGA chip.

Please make sure your operation system is Microsoft Windows 2000/XP.

Please install Microsoft DirectX9.0b or above.

## **7. Failed to play program**

Make sure you have installed Sound Card Driver and the Sound Card is working.

Please note that no matter you want to listen to the audio or not, the sound card and its driver must be installed.

Please check the signal quantity and strength.

## **8. When playing program, I can only hear the sound but can't see any images.**

Please make sure your VGA driver and Microsoft DirectX9.0 were installed correctly.

## **9. DTV MPEG2 video playback on Notebook PC's is not smooth**

MPEG2 video playback consumes lots of CPU power. To get better performance, please make sure "Power-saving" mode of the Notebook PC is disabled and the CPU should run at its maximum frequency.